AMENDMENTS TO THE CLAIMS

Claims 1-5. (Canceled)

6. (Previously presented) A method of importing <u>a</u> peptide, polypeptide, or protein into a cell in a subject comprising administering to the subject a complex comprising the peptide, polypeptide, or protein linked to a mammalian hydrophobic importation competent signal peptide, thereby importing the peptide, polypeptide, or protein into the cell of the subject.

Claims 7 and 8. (Canceled)

- 9. (Previously presented) The method of Claim 6, wherein the signal peptide comprises the amino acid sequence set forth in SEQ ID NO:5.
- 10. (Previously presented) The method of Claim 6, wherein the molecule is an antigenic peptide.
- 11. (Previously presented) A method of importing a peptide, polypeptide, or protein into the nucleus of a cell in a subject comprising administering to the subject a complex comprising the peptide, polypeptide, or protein linked to an importation competent signal peptide and a nuclear localization peptide, thereby importing the peptide, polypeptide, or protein into the nucleus of the cell of the subject.
- 12. (Previously presented) The method of Claim 11, wherein the signal peptide comprises the amino acid sequence set forth in SEQ ID NO:5.
- 13. (Previously presented) The method of Claim 11, wherein the nuclear localization peptide comprises the amino acid sequence set forth in SEQ ID NO:2.
- 14. (Previously presented) The method of Claim 11, wherein the nuclear localization peptide comprises the amino acid sequence set forth in SEQ ID NO:10.

- 15. (Previously presented) The method of Claim 11, wherein the nuclear localization peptide comprises the amino acid sequence set forth in SEQ ID NO:11.
- 16. (Withdrawn) A method of regulating the growth of a cell in a subject comprising administering to the subject the complex of claim 1 comprising a growth regulatory peptide linked to the importation competent signal peptide.
 - 17. (Withdrawn) The method of Claim 16, wherein the cell is a tumor cell.
- 18. (Withdrawn) The method of Claim 16, wherein the growth regulatory peptide stimulates the cell growth and comprises the nuclear localization sequence of acidic fibroblast growth factor.
- 19. (Withdrawn) The method of Claim 18, wherein the growth regulatory peptide comprises the amino acid sequence set forth in SEQ ID NO:3.
- 20. (Withdrawn) The method of Claim 18, wherein the growth regulatory peptide comprises the amino acid sequence set forth in SEQ ID NO:4.
- 21. (Withdrawn) The method of Claim 16, wherein the growth regulatory peptide inhibits the cell growth.
- 22. (Withdrawn) The method of Claim 21, wherein the growth regulatory peptide comprises the amino acid sequence set forth in SEQ ID NO:9.
- 23. (Withdrawn) A method of inhibiting expression in a cell in a subject of a gene controlled by transcription factor NF-κB comprising administering to the subject the complex of claim 1 comprising an importation competent signal peptide linked to a nuclear localization peptide of an active subunit of NF-κB complex.

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- 24. (Withdrawn) The method of Claim 23, wherein the subunit of NF-κB is subunit p50.
- 25. (Withdrawn) The method of Claim 24, wherein the complex comprises the amino acid sequence set forth in SEQ ID NO:9.
- 26. (Withdrawn) A method of stimulating the immune system of a subject comprising administering to the subject the complex of claim 1 further comprising an importation competent signal peptide linked to an antigenic peptide.
- 33. (Withdrawn) A method of screening signal peptides for the ability to effect the importation of a biologically active molecule into a cell comprising administering to the cell a complex comprising the molecule linked to the signal peptide and determining whether the molecule is imported into the cell, the presence of importation of the molecule indicating a signal peptide which can effect importation.

Claims 34-38. (Canceled)

39. (New) The method of claim 6, wherein the signal peptide is selected from the SigPep database.